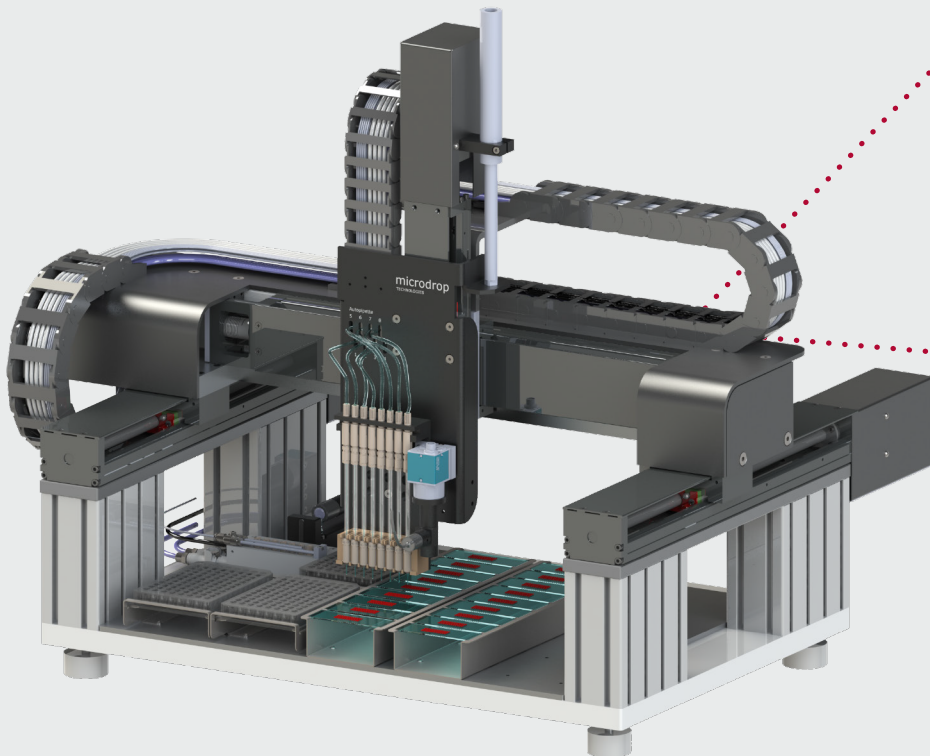


AD-P-9180

AUTODROP GANTRY II Liquid Handling Spotter

The solution for your Life Science Application



PERFECT FOR APPLICATIONS LIKE

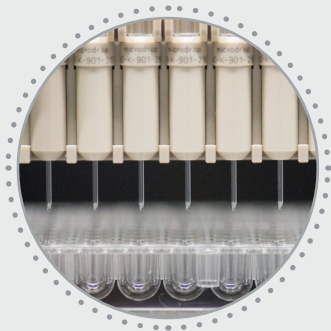
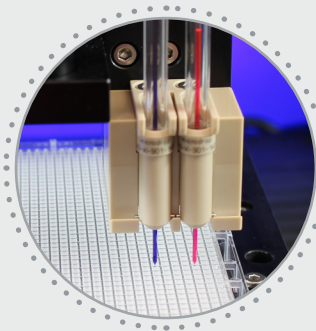
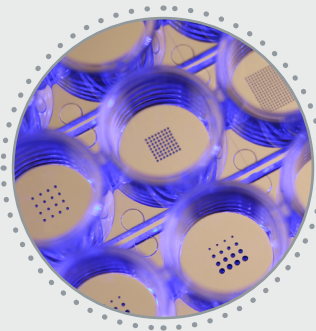
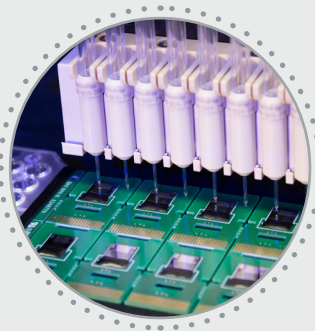
- protein/ cell/ DNA microarrays
- diagnostic biochips
- lab-on-a-chip
- biosensors
- lateral flow
- high throughput screening

EXTEND IT WITH

- pipette washing station
- holder for well plates
- holder for glass slides
- vacuum plate, also heated or cooled
- humidifier
- customized substrate plates
- HEPA filter
- your ideas ... contact us.

WE HAVE YOUR PERFECT TOOL FOR YOUR LIFE SCIENCE APPLICATION

- drives up to 8x Autopipettes individually
- travel range of 300 mm x 300 mm in standard, but scalable
- contact-less dispensing in the pico- to microliter range
- easy filling and cleaning
- ready-to-use system including intuitive software
- positioning accuracy $\pm 20 \mu\text{m}$
- repetition accuracy $\pm 5 \mu\text{m}$
- wide range of optional items



AUTODROP GANTRY II Liquid Handling Spotter

TECHNICAL DATA OF THE AD-P-9180

Electronic control unit	BLDC motors, ball screws x- and z-axis each 50 W, y-axis 2x 50 W,
Travel range	x-axis 300 mm, y-axis 300 mm, z-axis 100 mm
Positioning accuracy	± 25 µm each axis
Repetition accuracy	± 10 µm each axis
Acceleration	maximum 1000 mm/s ²
Velocity	maximum 100 mm/s
Additional possible load of positioning unit	maximum 2.5 kg
Dimension without hood and underframe// Weight	W: 690 mm / D: 650 mm / H: 600 mm // ~50 kg
Dimension with hood and underframe	W: 780 mm / D: 760 mm / H: 1600 mm

AUTODROP SOFTWARE

All control electronics are operated via the user interface of the included Autodrop Software

Short description Autodrop Software:

- Setting and saving of Autopipettes parameter
- Macroscript for programming automatic processes
- Print types: Point to point, in flight, vector based graphics
- Import and edit dxf files for printing curves and other structures (path control)
- Observation of dispensing droplets in flight and determination of drop velocity and drop volume
- Image recognition for substrate position and/or fiducial marks

DISPENSING UNIT

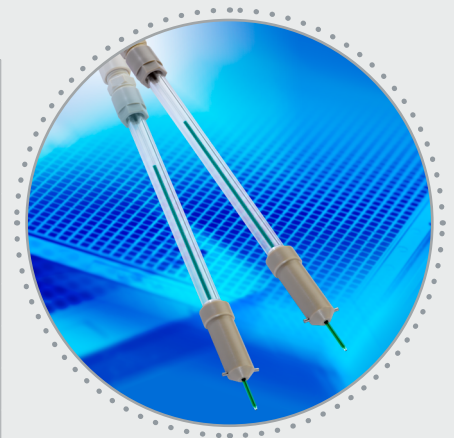
Pressure control and distribution for holding pressure and for filling/ emptying Autopipettes

Control for 8x Autopipettes:

- Selection of dispensing of single drops, series of drops or continuous dispensing of drops;
- Individual control parameters result from the liquid to be dispensed and the selected Autopipette design;
- Optional, automatic pipette washing station for cleaning between fluid changes

AUTOPIPETTE TYPE AD-K-901 AT A GLANCE

Inner nozzle diameter	Standard: 50 µm or 70 µm
Droplet diameter	45 µm up to 90 µm dispensed with standard pulse, can be reduced up to 50% by using pulse modulation mode
Droplet volume	50 µl up to 380 µl dispensed with standard pulse, can be reduced up to 50% by using pulse modulation mode
Viscosity range	0.4 up to ~20 mPas
Storage volume	approx. 37 µl
Dead volume	approx. 14 µl
Materials in contact with dispensing liquid	glass



01/2024

We are there for you. Contact us.

microdrop Technologies GmbH
Tycho-Brahe-Kehre 1
22844 Norderstedt
Germany

Tel. +49 40 | 535383-0
Fax +49 40 | 535383-24
info@microdrop.de
www.microdrop.de